

# Greenbank Electronics

Our Ref: AN-C30/1

2nd March 1981

## Tiny BASIC Version V5.01

This program is the latest version of the 2K Tiny BASIC originally known as Version V1.2

The program has been changed so that it can occupy the firmware socket on the new MZB-3 Z80 CPU card, (which should be configured for the 2516 type of EPROM, and have its power-on-jump and EPROM addresses set to E000<sub>h</sub>). No other firmware is necessary in a minimum system.

Alternatively, it can be located in a system at E000<sub>h</sub> in the conventional way, if there is some means of calling it at its address.

The main system requirements and changes for V5.01 are as follows:

ROM:	E000 <sub>h</sub> -E7FF <sub>h</sub>	
RAM (At least 1K):	Start at 1000 <sub>h</sub> , continue in consecutive locations. (If say a 16K dynamic RAM card is in use it may be more convenient to begin at 0000 <sub>h</sub> .) Use NMREQ.	
VDU:	C000 <sub>h</sub> -C2FF <sub>h</sub>	Use NMREQ.
Keyboard:	Port 40 <sub>h</sub>	Use NI/OREQ.
Cassette UART:	Status: Port 04 <sub>h</sub>	Use NI/OREQ.
	Data: " 05 <sub>h</sub>	" "
Printer UART:	Status: Port 06 <sub>h</sub>	" "
	Data: " 07 <sub>h</sub>	" "

Other documents which may be of some help are our notes AN-C23/2 (Z80 Sections), and AN-C29/1.

A further modification which has been made to produce Version V5.01, is to allow it to work even if Tape and Printer UARTs are not present. The modification in the software relies on the fact that an unconnected line generally reads as a '1'. If this is not the case in your system you may have to install a pull-up resistor around 1k-10k from data line DB5 to +5V.

Alternatively, if Tape and Printer UARTs are in the system, then the modification described in our Diagrams AN-C29/1 need not be followed completely - simply connecting a low forward drop diode (cathode to UART pin 16, anode to pin 7), will 'fool' V5.01 into thinking there is a front panel switch present, permanently jammed to the 'on' position.

D.M.P.

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